



Department of Life Sciences
and Systems Biology



Zoological Laboratory



Co-ordinators:

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Team:

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Laufen, 1-3 December 2014

UPDATES...

**In Italy we have no
butterfly monitoring**



**Butterfly Monitoring Schemes (BMS)
in Europe**

**Inaugural Meeting - Laufen, 29-31 October 2007
Bavarian Academy for Nature Conservation and Landscape Management (ANL)**



ENVIRONMENTAL EDUCATION

Increase public awareness and knowledge about environmental issues (school, University, local people) .



RESEARCH

Scientific research in Natural Park areas. (At the moment in one National Park and in two Regional Parks in Puglia)



ECO-TOURISM

Bio-cultural travel in natural areas in South Italy



Polyxena
(Italy)

www.polyxena.eu
info@polyxena.eu



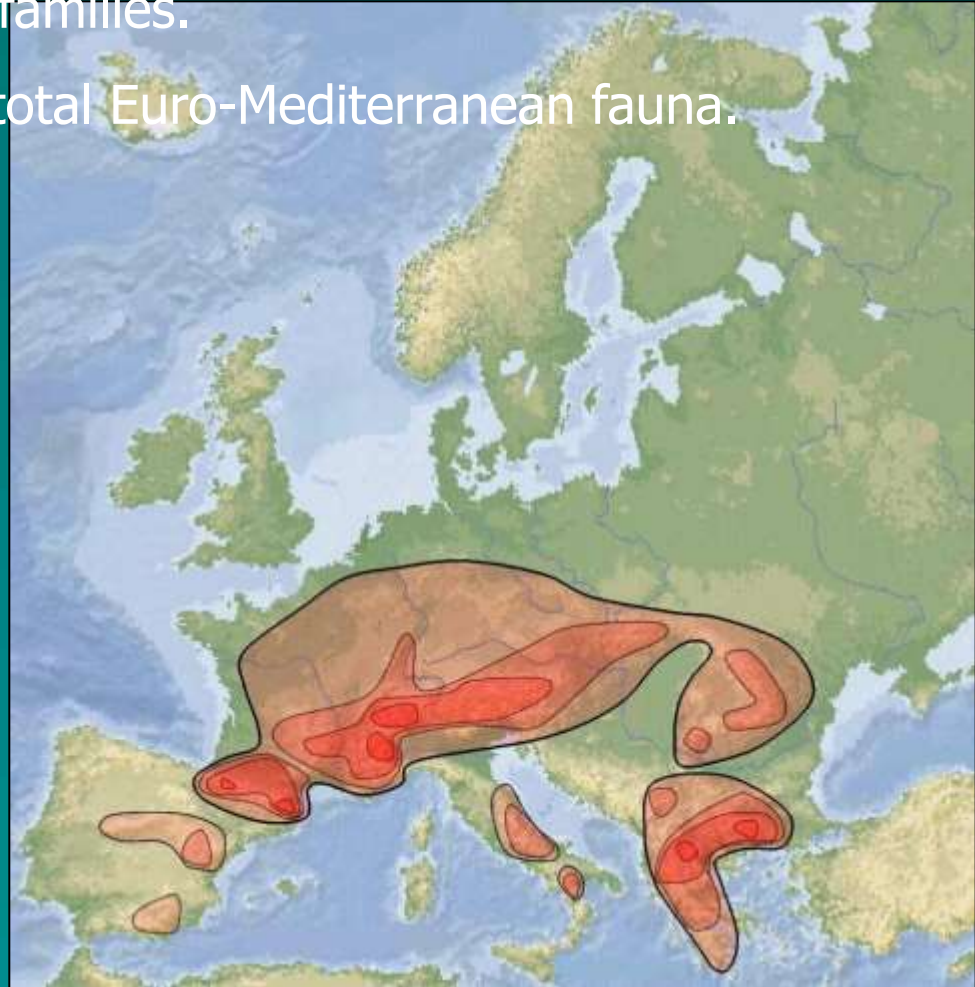
THE ITALIAN BUTTERFLY FAUNA

Includes **287** butterfly species, assigned to **79 genera** and **9 families** or subfamilies.

It represents **37%** of the total Euro-Mediterranean fauna.

At a national level, butterfly biodiversity is **higher** in **northern** Italy, particularly in the Alps and pre-Alps, than in the Apennines and in the main Italian islands.

Balletto et al. 2005



van Swaay & Warren 2003

ITALIAN DATASET

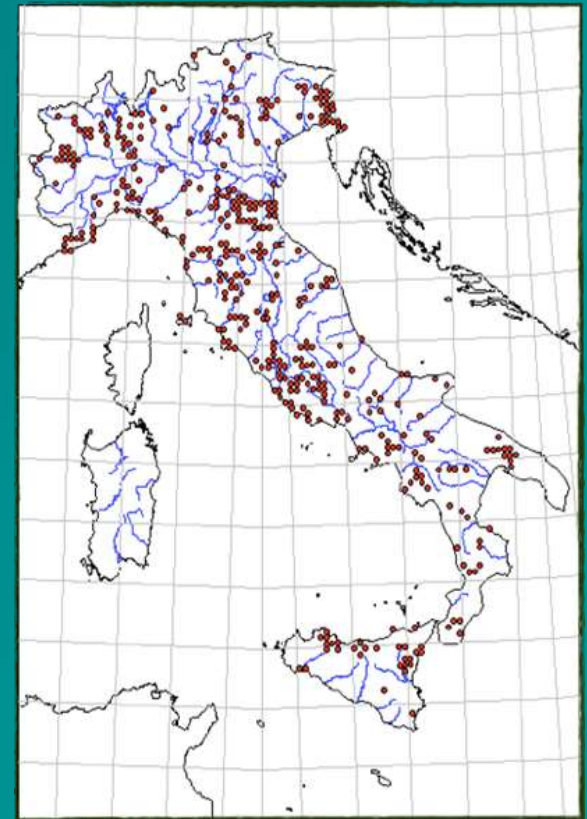
The **Italian Ministry for the Environment** has published a preliminary distribution atlas for 10,000 animal species, mapped on a 10x10 Km UTM grid:



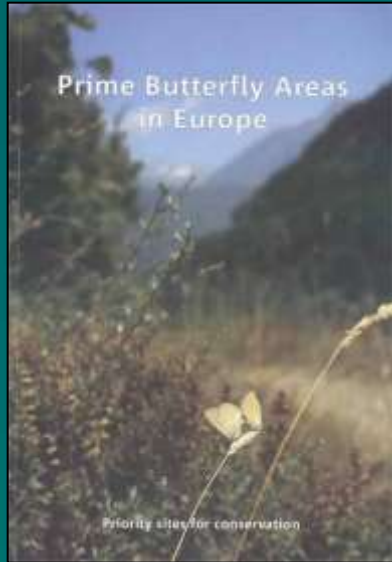
CKmap Project (Balletto et al. 2007)

Our team was involved in this project for the parts concerning the **Papilionoidea** and the **Zygaenoidea**.

Data included in this database are from the literature and museum collections. This data set is continuously updated and currently includes well over **190,000 non-duplicated individual records**.



ITALIAN DATASET



We cooperated to the projects:

- Butterfly Prime Areas (Van Swaay et al. 2003)
- IUCN Red Data Book (Van Swaay et al. 2010)
- IUCN Red List Assessment of Mediterranean Butterflies (Malaga 2013)

We are working on the Italian Red List as expert hired by the Environment Ministry

ITALIAN BUTTERFLIES



Check list of the Italian Butterflies (Hesperoidea and Papilionoidea)

- First edition Balletto Emilio & Cassulo Luigi 1995
- Second edition Balletto Emilio, Cassulo Luigi & Bonelli Simona 2014 (Zootaxa: 114 pp)

**17 Habitat Directive
Species (9 in Annex II
and IV but *L. helle* is
extinct; 7 in Annex IV, 1
(*E. aurinia*) in Annex II)**



We are involved in drawing national or regional Action Plans for HD species or endangered

Coenonympha oedippus

Maculinea arion

Euphydryas aurinia (*glaciegenua/provincialis*)

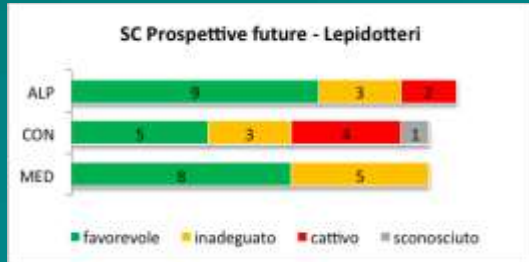
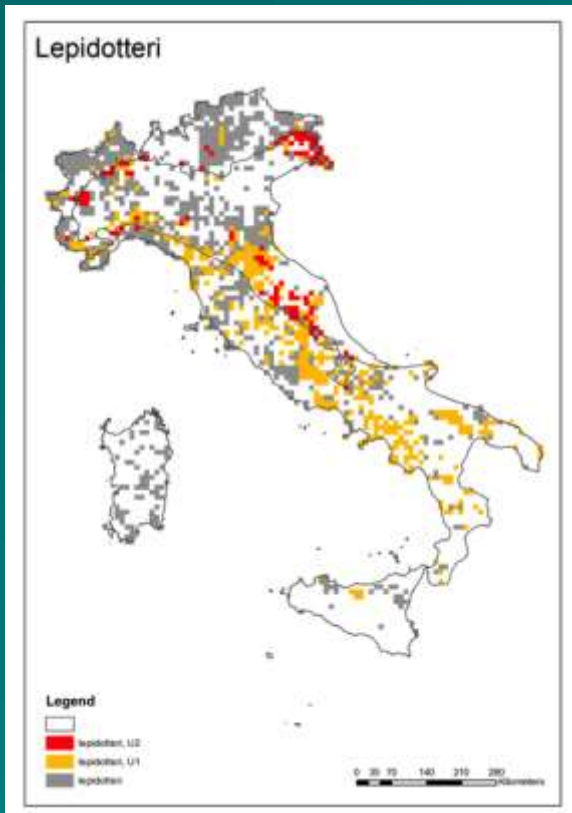
Melitaea britomartis

Euphydryas maturna

Zerynthia cassandra/polyxena



Assessment art 17 DH, 2007-2012





ISPRA
Istituto Superiore per la Protezione
e la Ricerca Ambientale



MINISTERO DELL'AMBIENTE
E DELLA TUTELA DEL TERRITORIO E DEL MARE

Specie e habitat di interesse comunitario in Italia: distribuzione, stato di conservazione e trend



194 / 2014

<http://www.barcodingitalianbutterflies.eu>



CHI HA ADERITO



Sustainable use of pesticide

Directive 2009/128/EC → January 2014 Italian LEX

WP: Reduce pesticides in 2000 Nature sites



Guidelines (*ITALIAN only!*)



Rural Development Scheme (CAP) -Regional



Thank you!!



Thank you!!

Our group in Turin:

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Dario Patricelli

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